

GUJARAT TECHNOLOGICAL UNIVERSITY**PDDC - SEMESTER-V • EXAMINATION – WINTER 2013****Subject Code: X 51902****Date: 06-12-2013****Subject Name: Manufacturing Process - II****Time: 10.30 AM - 01.00 PM****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

Q.1 (a) Define Pattern. Enlist Different types of pattern. Discuss gated pattern & follow board pattern with neat sketch. **07**

(b) Explain Properties of moulding sand **07**

Q.2 (a) Explain Bottom Gate with neat sketch. **07**

(b) Explain Electric arc furnace with neat sketch. **07**

OR

(b) Discuss permanent mould casting with its advantages over other casting processes. **07**

Q.3 (a) Explain Precision Investment Casting process with its advantages over other casting processes. **07**

(b) 1. Differentiate TIG Welding & MIG Welding **07**
2. Differentiate Spot Welding & Seam Welding

OR

Q.3 (a) Enlist types of centrifugal casting and discuss True centrifugal casting with its neat sketch. **07**

(b) Discuss different types of flames produced in gas welding. **07**

Q.4 (a) Explain Plasma Arc Welding (PAW) with its neat sketch and advantages. **07**

(b) Discuss drop forging with its neat sketch, advantages & disadvantages. **07**

OR

Q.4 (a) Discuss backward hot extrusion with its neat sketch. **07**

(b) Explain Seamless tube manufacturing with neat sketch. **07**

Q.5 (a) Define following terms. **07**

1. Blanking 2. Piercing 3. Trimming 4. Shaving 5. Notching
6. Lancing 7. Nibbling

(b) Discuss factors affecting the strip layout. **07**

OR

Q.5 (a) Discuss injection moulding with neat sketch. **07**

(b) Explain the difference between **07**
A. Lapping & Honing
B. Polishing & Buffing
